

19971212.qrp v00_n937.qrs.971212

Date: Fri, 12 Dec 1997 19:07:40 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 937

QRP-L Digest 937

Topics covered in this issue include:

- 1) [32530] Re: Hotmail Free E-mail
by Chris Trask <ctrask@primenet.com>
- 2) [32531] Good Hand held 2m/70cm FM rigs?
by Dan Tayloe-P26412 <Dan_Tayloe-P26412@email.mot.com>
- 3) [32532] Re: Hotmail Free E-mail
by "Ron Smith" <resmith@primenet.com>
- 4) [32533] N/T Fox??
by Chris Cartwright <ccart@dns.vidtel.com>
- 5) [32534] Re: Christmas Cards
by "J. Medley" <jmedley@ix.netcom.com>
- 6) [32535] Re: FAUX DX OPERATOR?
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 7) [32536] Re: Christmas Cards
by "Ron Smith" <resmith@primenet.com>
- 8) [32537] Re: FOX: Some days, you eat the bear...
by Vic Rosenthal <rakefet@rakefet.com>
- 9) [32538] Re: FAUX DX OPERATOR?
by Stan <stan@cruzio.com>
- 10) [32539] Re: Physicists, Shacks, Messes, Cyclotrons
by Leon Heller <leon@lfheller.demon.co.uk>
- 11) [32540] Boat anchors list ?
by n4tua@juno.com (Collin Collier)
- 12) [32541] QRP - Watts?
by Dan Tayloe-P26412 <Dan_Tayloe-P26412@email.mot.com>
- 13) [32542] Re: FAUX DX OPERATOR?
by Joe Gervais <vole@primenet.com>
- 14) [32543] Re: Soldering xtals
by bruce muscolino <w6toy@pop.erols.com>
- 15) [32544] NT Fox 7.142 @ 0138Z
by Chris Cartwright <ccart@dns.vidtel.com>
- 16) [32545] NOGLM
by Bruce Rattray <rattray@gpfn.sk.ca>
- 17) [32546] Re: FAUX DX OPERATOR?
by ac4gt@juno.com (nathan c tart)
- 18) [32547] RE: N/T fox Thurs 11 Dec EST
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 19) [32548] Got NY -- only 41 QRPP states to go

by "JakeCart" <JakeCart@ix.netcom.com>
20) [32549] Re: Back Issues of QRPp
by Jay Bromley <w5jay@cei.net>
21) [32550] DX !!
by cdavis@unlinfo.unl.edu (Charles Davis)
22) [32551] Blue Film Write-up
by flyer@hooked.net
23) [32552] NT Fox 7.142 @ 0138Z
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
24) [32553] Re: FOX: Some days, you eat the bear...
by k5zty@juno.com
25) [32554] DX !!
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
26) [32555] N0GLM
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
27) [32556] Re: FAUX DX OPERATOR?
by Jeff Grudin <grudin@pacific.vdbs.com>
28) [32557] Got NY -- only 41 QRPp states to go
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
29) [32558] N/T Fox??
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
30) [32559] Livermore Swap Meet Special
by David Smith <qrp-dave@ocsnet.net>
31) [32560] 2n2222 projects
by Fran Flynn <fflynn@together.net>
32) [32561] W0RSP & The FOX -- First Time
by Adrian Weiss <aweiss@sunflowr.usd.edu>
33) [32562] Re: [Antennas] Re: [YCCC] Re: [TowerTalk] old books
by Chris Trask <ctrask@primenet.com>
34) [32563] Re: Vertical Antenna Question
by "Daniel L. Evans" <dlevans@hsonline.net>
35) [32564] Re: DX !
by Joe Gervais <vole@primenet.com>
36) [32565] Re: Vertical Antenna Question
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
37) [32566] W0RSP & The FOX -- First Time
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
38) [32567] Hotmail E-mail
by "<HS2JFW/QRP, Joe>" <a37s0112@daisy.bu.ac.th>
39) [32568] Re: FAUX DX OPERATOR?
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
40) [32569] FS or Trade: Bug
by "david's" <elim@ime.net>
41) [32570] Index Labs QRP+ for sale - \$400
by Peter_Simpson@3com.com
42) [32571] Re: Physicists, Shacks, Messes
by Chuck Carpenter <w5usj@webwide.net>
43) [32572] RE: Vertical Antenna Question

by n3aaz_qrp@juno.com (N3AAZ - John)

44) [32573] SOLD!--TenTec Argo 515
by "Wilford D. Lindsey" <70511.3041@compuserve.com>

45) [32574] Re: Need a regen schema
by Michael Maiorana <mikemo@ibm.net>

46) [32575] Re: FOX: Sometime you should identify--when?
by "James C. Owen, III" <owen@piper.eeel.nist.gov>

47) [32576] Nor Cal NC38 Special
by James Wells <JDWELLS@fcc.gov>

48) [32577] Re: FAUX DX OPERATOR?
by Monte Stark <ku7y@sage.dri.edu>

49) [32578] Re: paddle kit in NH
by "Ron Smith" <resmith@primenet.com>

50) [32579] Headset for the Sierra
by "Benjamin F. Poinsett" <benmail@erols.com>

51) [32580] QRP+ emails
by Peter_Simpson@3com.com

52) [32581] Re: FAUX DX OPERATOR?
by Vic Rosenthal <rakefet@rakefet.com>

53) [32582] Ideas for Your 5/8 Wavelength Vertical (long)
by ji3m@maxwell.com (James R. Duffey)

54) [32583] Snowshoe Run Tomorrow Night
by "Marshall Emm" <mgemm@mtechnologies.com>

55) [32584] Re: FOX: Sometime you should identify--when?
by Roger Hightower <n7kt@earthlink.net>

56) [32585] VW' mito
by "=?ISO-8859-1?Q?Juan_Antonio_L=F3pez=2C_EA8QJ=2C_EA-QRP_#196?=" <jalopezd@arrakis.es>

57) [32586] We're not hiding!
by "Marshall Emm" <mgemm@mtechnologies.com>

58) [32587] FS: PIXIE 2 - 40 meters
by Stanley Wilson <microres@crl.com>

59) [32588] Re: RTTY/QRP
by Brian Kassel <bkassel@dancris.com>

60) [32589] Re: Vertical Antenna Question
by Zack Lau <zlau@arrl.org>

61) [32590] DB-25 Challenge?
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>

62) [32591] Re: FOX: Sometime you should identify--when?
by Vic Rosenthal <rakefet@rakefet.com>

63) [32592] R5 Vertical beats my 10M dipole? Comments welcome
by "Kevin F. Glynn" <kfglynn@prodigy.net>

64) [32593] Texas Butcatcher - supplier phone #?
by David Feldman <dgf@netcom.com>

65) [32594] RTTY/QRP
by The Whittemores <wb1edi@scoot.netis.com>

66) [32595] Cheap Wire for antennas at Home Depot
by "Kevin F. Glynn" <kfglynn@prodigy.net>

- 67) [32596] R5 Vertical beats my 10M dipole? Comments welcome
by "Kevin F. Glynn" <kfglynn@Prodigy.Net>
- 68) [32597] RE: Vertical Antenna Question
by Kevin Muenzler <wb5rue@stic.net>
- 69) [32598] HONEY they shrunk the paddle!
by "J. Skalski" <jskalski@acsu.buffalo.edu>
- 70) [32599] Off the wall antenna question...
by KB0VCC/1 <kb0vcc@rocketmail.com>
- 71) [32600] Knightlight rig?
by Scottae4vq <Scottae4vq@aol.com>
- 72) [32601] Mel Evans, GM6JAG
by "Juan Antonio Lopez, EA8QJ, EA-QRP # 196" <jalopezd@arrakis.es>
- 73) [32602] Re: W0RSP & The FOX -- First Time
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 74) [32603] Re: Need a regen schema
by Paul Harden <pharden@aoc.nrao.edu>
- 75) [32604] Re: HONEY they shrunk the paddle!
by George Cortez <10eim6294cnl@internetMCI.COM>
- 76) [32605] Re: HONEY they shrunk the paddle!
by Ed Loranger <we6w@qsl.net>
- 77) [32606] HI owl packed
by mike@krypton.nmr.Hawaii.Edu (Mike W. Burger)
- 78) [32607] X
by pdn@warwick.net
- 79) [32608] FS: RS dsp 40
by "John P. Spoonhower" <spoon@kodak.com>
- 80) [32609] QRP-L WebSite Problem
by DENNIS MO <DENNISMO@aol.com>
- 81) [32610] 6 Meter Transverter
by "Frank A. West" <ke6vbm@earthlink.net>
- 82) [32611] Antenna Wire? - Aluminum Worked!!!
by Steve Galchutt <n0tu@webaccess.net>
- 83) [32612] QRP-L WebSite Problem
by DENNIS MO <DENNISMO@aol.com>
- 84) [32613] Re: HONEY they shrunk the paddle!
by Conway Yee <cyee@bidmc.harvard.edu>
- 85) [32614] Re: QRP-L WebSite Problem
by Jim Eshleman <lujce@hooch.cc.Lehigh.EDU>
- 86) [32615] Re: QRP-L WebSite Problem
by wmcshan@REX.RE.ouhsc.edu (Mike McShan)
- 87) [32616] SS Pins, ARRL 10M Contest
by flydnq7x@primenet.com (Floyd Smithberg)
- 88) [32617] ALMOND is Available (at last)!
by Chris Trask <ctrask@primenet.com>
- 89) [32618] Re: Vertical Antenna Question
by Steven Weber <kd1jv@moose.ncia.net>
- 90) [32619] ?? Super Pixie by Debra KG6UI
by "KA5T Larry Wise" <lewise@inetport.com>

91) [32620] Got a VE2 on my Pixie -- on to DXCC!!
by "JakeCart" <JakeCart@ix.netcom.com>

Date: Thu, 11 Dec 1997 17:00:59 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Jeff & Bea Hahn <jhahn@bellatlantic.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [32530] Re: Hotmail Free E-mail
Message-ID: <Pine.BSI.3.96.971211165931.10900A-100000@usr08.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 11 Dec 1997, Jeff & Bea Hahn wrote:

> Bill Meahan wrote:

> >

> > Hotmail is also widely used by spammers, porn purveyors and other
> > 'net lowlifes because it makes a darn good "throwaway" account
> > (free). I've configured my site to reject any and all mail from
> > hotmail.com (as have many others I know) after being deluged with
> > pyramid schemes, offers of strictly illegal cable descrambles,
> > pointer to porn sites and so forth all originating at hotmail.com.

> >

> > CAVEAT EMPTOR - it may not be as "free" as you think.

> >

> > On 11 Dec 97 at 10:47, charles k brown wrote:

> >

> > > Hotmail is a free E-mail service that is Web based; requires an ISP
> > > and Netscape or Microsoft Internet Explorer. Basic info is in a
> > > saved text file from Hotmail.

> > >

> > > Request HOTMAIL.txt and do not repeat the text in the reply.

> > >

>

> I have had a hotmail account for about 9 months. I use it primarily for
> ham related activities (except this list). I have NEVER received the
> type of e-mail mentioned by Ken. Jeff Hahn, KR4YS

>

I have. From Hotmail, Friend@Public.Com, and a few others. I,
too, have ixnayed anything from Hotmail coming into my Email folder.

,-----.
/ What's all this \
/ extinct stuff, anyhow? /
\ -----'
_ |/

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer

Date: Thu, 11 Dec 1997 17:30:52 -0700
From: "Ron Smith" <resmith@primenet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [32532] Re: Hotmail Free E-mail
Message-ID: <01bd0695\$69f687e0\$3322a5ce@primenet.com.primenet.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Chris Trask <ctrask@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Thursday, December 11, 1997 5:08 PM
Subject: Re: Hotmail Free E-mail

| I have. From Hotmail, Friend@Public.Com, and a few others. I,
|too, have ixnayed anything from Hotmail coming into my Email folder.

Sorry Guys, I have to agree with Bill and Chris on this one. I worked with
an ISP for about a year and heard that several ISP's were blocking incoming
messages from Hotmail due to the amount of spam messages originating from
that site.

Ron

Amateur Radio Callsign: KD7VD
Southwest Idaho
E-mail: resmith@primenet.com
QRP-L #1291

Date: Thu, 11 Dec 1997 20:39:24 -0500 (EST)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-l@Lehigh.EDU>
Subject: [32533] N/T Fox??
Message-ID: <Pine.LNX.3.93.971211203841.1731A-100000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Anyone heard Preston?? Nothing here in MD 0033Z..

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- N3XRV ARRL-VE QRP WAS 27/10(w/c) | http://dns.vidtel.com/~ccart --

-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? NJ-QRP #105 LIQRP #???? --

Date: Thu, 11 Dec 1997 18:36:21 -0600 (CST)
From: "J. Medley" <jmedley@ix.netcom.com>
To: qrp-l@Lehigh.EDU
Subject: [32534] Re: Christmas Cards
Message-ID: <199712120036.SAA17152@dfw-ix1.ix.netcom.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Tom,

No need to apologize for having a big heart, sir!

Jan, KB0WQT

Date: Thu, 11 Dec 1997 17:03:46 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: <ARДУJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [32535] Re: FAUX DX OPERATOR?
Message-ID: <199712120124.TAA32537@multi13.netcomi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Some are "slims", people who entertain themselves by pretending to be someone important, but don't base your conclusion only on the Buckmaster database. Foreign licenses are often not reliably reported and the callbooks do not have 100% accurate data for foreign licensees. You will also find that some of the licenses from nice-weather locations are for foreign hams visiting on vacation, and the Buckmaster database will not reflect that license until long after the ham has returned home to the cold and wet.

Mike K1MG

>... Got a call from "PV5P" only to find out
> the station according to BUCKMASTER doesn't exist.
> Alan KB7MBI

Date: Thu, 11 Dec 1997 18:06:12 -0700
From: "Ron Smith" <resmith@primenet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [32536] Re: Christmas Cards
Message-ID: <01bd069a\$23bc11a0\$3322a5ce@primenet.com.primenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

AMEN!

-----Original Message-----
From: J. Medley <jmedley@ix.netcom.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: Thursday, December 11, 1997 6:02 PM
Subject: Re: Christmas Cards

|Tom,
|
|No need to apologize for having a big heart, sir!
|
|Jan, KB0WQT
|
|
|

Date: Thu, 11 Dec 1997 17:13:08 -0800
From: Vic Rosenthal <rakefet@rakefet.com>
To: srichard@Aldus.NorthNet.org, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [32537] Re: FOX: Some days, you eat the bear...
Message-ID: <34908FA4.6CA9BAC0@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Richard Sherman wrote:

> Please don't do this. Did you ever try to work a DX station that ID'ed
> every 10 minutes or so, and at 70wpm? Very frustrating. Frequently on
> the DX and Contest reflectors the issue of whether or not to ID with > > every
contact comes up. The consensus from world's best testers and
> DX'ers is to ID every time.

First of all, I said every 4 or 5 QSO's, not necessarily every 10
minutes. And a DX contest is different -- most of the time you do not
know the guy's call when you come across a pileup. In this case,
everyone knows the call. I admit to being _very_ frustrated by some DX
stations who seem to ID every half hour (and then get clobbered when
they finally do it).

> And besides the FCC regs, (97.119) requires you to
> ID at least every 10 minutes and at the END of every contact. Whether > > that
contact lasts 30 seconds or 3 hours.

I need to look this up. I have a feeling that this is not the case any
longer...the FCC rules are somewhere on the web, I'll look and see.

Vic K2VCO

Date: Thu, 11 Dec 1997 17:09:47 -0800
From: Stan <stan@cruzio.com>
To: ARDUJENSKI@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [32538] Re: FAUX DX OPERATOR?
Message-ID: <34908EDB.6CFF@cruzio.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

ARDUJENSKI wrote:

>
> Last nite 40M was really open late. Got a call from "PV5P" only to find out
> the station according to BUCKMASTER doesn't exist.

Just because Buckmaster doesn't have it, doesn't mean it isn't real .
New calls are popping out faster than Buckmaster can keep up.

Don't be shy about asking the dx op where to send your qsl card.

turks and Caicos is vp not pv.

Vp5p is qsl via wb3dna.

Stan N6XU

> I was wondering if this is common or if anyone else has gotten "stung". I am
> new to DX. Heck VT is DX to me. One British, one French and now Turks and
> Caicos Isl. The station(s) were all 559 or better and no doubt of the calls.
>
> Alan KB7MBI
>
> .-

Date: Thu, 11 Dec 1997 19:24:48 +0000
From: Leon Heller <leon@lfheller.demon.co.uk>
To: ji3m@maxwell.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [32539] Re: Physicists, Shacks, Messes, Cyclotrons
Message-ID: <p210LIAA4Dk0Ew\$j@lfheller.demon.co.uk>
MIME-Version: 1.0

In message <v02130504b0b5d8db2d1c@[192.31.66.158]>, "James R. Duffey"
<ji3m@maxwell.com> writes
>Chuck wrote a post that piqued my interest;
>
>"There are two kinds of Physicists - theoretical and experimental.
>I am a theoretician. :-)"
>
>And for equal time, I am an experimentalist. Nothing in nature is exactly
>symmetrical. Perfect symmetry exists only in the minds of theoretical
>Physicists. Not even in Chuck's shack. It is a big help in understanding
>the physical world though. My experiments, like my office, shack, and mind
>are always a bit out of order. Often times more than a bit.
>
>"I was going through back issues of Rad Comm, the British
>radio magazine. They had a photo contest for the most
>disorganized shack.
>
>One guy lost because the shelves in his shack were all
>horizontal, so they knew it was a staged photograph. :-)
>Another lost because he had curtains."
>
>Ah yes, that is a great article. Recommended reading for everybody whose
>family thinks they have the world's messiest shack. Mine is pretty bad, but

>doesn't even come close to these. These guys make mine look like the front
>cover of Paul's book. As I recall, the winner won in part because all of
>his chairs had equipment or back issues of RadComm piled on them. The
>exception was a lone wooden stool, which was occupied by a proud cat. He
>also had to move the drill press to gain access to his rig. 8^)
>
>A good bit of humor.
>
>This also reminds me of a quote from one of Feynman's books about the
>Cyclotrons at MIT and Princeton. One was an absolute mess, the other kept
>in perfect order. Guess which one produced the best physics?
> The kids have the day off from school due to snow. I wonder if I can get
>them to clean my shack? May have a better chance getting them to clean
>their rooms. - Duffey

Many years ago, when Byte was worth reading, they published a photo of a
bench covered with wires and PCBs in an April issue, which had slid off
when the cat walked over it. It was apparently a working homebrew
computer.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424
See <http://www.lfheller.demon.co.uk/rcm.htm> for details of a
low-cost reconfigurable computing module using the XC6216 FPGA

Date: Thu, 11 Dec 1997 19:55:57 EST
From: n4tua@juno.com (Collin Collier)
To: qrp-l@Lehigh.EDU
Subject: [32540] Boat anchors list ?
Message-ID: <19971211.075731.16039.0.n4tua@juno.com>

Does anyone know the e-mail address for the Boat Anchors e-mail list?

Thank You in advance for the fast reply,
Collin Collier, N4TUA, QRP-L# 1318
n4tua@juno.com

Date: Thu, 11 Dec 1997 9:40:00 -0600
From: Dan Tayloe-P26412 <Dan_Tayloe-P26412@email.mot.com>
To: rsorge@phoenix.net, qrp-1@Lehigh.EDU
Subject: [32541] QRP - Watts?
Message-ID: <M909139.023.1chzx.1.971211172852Z.CC-MAIL*/OU=SATCG/OU=AZBH/PRMD=MOT/ADMD=MOT/C=US/@MHS>

You probably already got a lot of responses to this, but here it is again:

>I am trying to figure watts out of a QRP rig and what supply
>voltage is required to accomplish that power. I am using the
>circuit that is shown in the ARRL handbook for RF measurement
>with a digital volt meter.

>It is a simple network of a 51 ohm resistor, 1n34 diode, and
>.01uf capacitor.

This circuit will capture and measure the peak voltage, not the average voltage across the load. You need average voltage to calculate power. Your CW RF signal will be in the form of a sine wave. For this case, the average voltage across the load is peak voltage divided by square root of 2 (~1.414). Power is V^2/R . So if R is 50 ohms (your well matched antenna or dummy load), and you use you measured peak voltage instead of the average voltage, the formula becomes $(V^2)/(2*50)$ or $V^2/100$.

5w is therefore 22.3v peak, 2w is 14.14v peak, 1w is 10v peak.

>Question: Are there voltages created in a QRP rig that exceed
>the supply? If not, then I figure the most power you can get
>out of a rig with a 13.8v supply is 3.8 watts. This is
>assuming a resistive load of 50 ohms. Using $E^2/R=Watts$.

You are off by a factor of 2 due to peak voltage vs average voltage as the formula above shows. 12v peak gives 1.9w.

However, QRP transmitters running 12v regularly put out 5w, no problem. The answer is that there is a matching network to match the output impedance of the output transistor to the impedance of the antenna.

You are correct in that the *output transistor* is limited to 13.8v. If you looked at the wave form of the RF at the transistor running at full power, you will see something that kind of resembles a very dirty sine wave (there is a good reason for the output filters on a transmitter!) going from about 1v to 27v. The energy stored in the collector choke causes the voltage to soar higher than the supply

voltage when the transistor turns off. This is in effect a sine wave with a voltage of +/- 13v, or a peak voltage of 13v (not 27v).

In any case, the secret to more than 1.9w from the transmitter is that the impedance of the transistor may be different than that of the antenna. The output network does the job of matching the two impedances, which will also cause the power and voltage levels to be transformed to levels appropriate for the antenna 50 ohm impedance.

For the transmitter output power, $P = V^2 / (2 \cdot R)$ applies, where V is the supply voltage, and R is the *transistor* output impedance. Notice the factor of two to convert from peak to average.

For a 5w transmitter running from 12v, R is about 14 ohms. This assumes we have the entire 12v to work with. However, this is not really the case since the transistor will not pull clear down to 0v, but rather something like 1v. Therefore, we really have only 11v to work with. Five watts under this case leads to a transistor R of 12.1 ohms. Again, a properly designed output matching network will transform voltage and currents to that required for a 50 ohm antenna.

Fun stuff to figure out and work with!

- Dan Tayloe, N7VE, Phoenix, AZ, Az ScQRPions, QRPL # 696

Date: Thu, 11 Dec 1997 18:38:24 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-1@Lehigh.EDU
Subject: [32542] Re: FAUX DX OPERATOR?
Message-ID: <199712120138.SAA10450@usr07.primenet.com>

Howdy,

Alan (KB7MBI) wrote:

>
> Last nite 40M was really open late. Got a call from "PV5P" only to find
> out the station according to BUCKMASTER doesn't exist. This is the third
> such FAUX DX that I have gotten in the last 4 months. All abt 0300-0500 UTC.

If you're sure about the calls, I'd worry more about Buckmaster. While they're thorough, I'm not sure they

have *every* DX call listed out there, do they? Perhaps they do and I'm horribly mistaken, but much of the DX I work doesn't have a listing on the Buckmaster webpage. Just QSL via the Buro and see what happens. :)

Yes, 40m was open nice and long last night! Heard China and a 19-year-old South Korea ham around 0900Z. Was waiting for him to finish his ragchew... Next thing I know, my wife is waking me up. It's 1130Z and static fills the headphones. Can't work 'em if you're passed out! :) Must be why hardcore DX nuts are caffeine addicts.

Speaking of which, I heard another very weak station today (ala my 40m Swedish QSO earlier...) only this time it was on 15m. Calling CQ with no takers. Fired off my call. No luck. Fired off again. No luck. Tried a third time, and got a "QRZ?"! History repeating itself, the fish was hooked, now I just had to land him. Sent my call twice in a row, with that nice deliberate "...T...T..." on the end. ;-) Bingo! My first Phillipines QSO!

Sure enough, as we signed I heard several stations calling him, the DX that before had been calling CQ to an empty band.

Who needs a linear amp?!? Just find 'em before everyone else does and those 5 watts will be better than any amp after the fact. ;-)

Hope you folks had a good day too!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

2-Way QRP WAS: 49 (Need RI)

2-Way QRP DXCC: 7

QRP DXCC: 27 (Taking the scenic route... :-))

"QRP, Unix, MST3K and Babylon 5: The Four Pillars of Nerdvana" - Me

Date: Thu, 11 Dec 1997 20:51:14 -0500 (EST)
From: bruce muscolino <w6toy@pop.erols.com>
To: Jerome_Peters@el.nec.com
Cc: QRP-L@Lehigh.EDU

Subject: [32543] Re: Soldering xtals
Message-ID: <2.2.16.19971211213702.217f4526@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>
> So my question is: Is it a good (or safe) practice to ground the case
> of xtals? or is something else out of whack that would cause the xtal
> case to be sensitive.

> Any relevant information would be much appreciated.

>
Bill Carver, W7AAZ, one of the QRP Quarterly's technical editors wrote an extremely informative paper on the design and construction of multi-pole ladder type crystal filters for last year's QRP Technical Conference. Bill states clearly that the crystal cases should be grounded in order to minimize the effects of crystal to case capacitance. A copy of this paper, an absolute must for anyone who wants to homebrew ladder type crystal filters, along with the other 9 papers presented at the 1997 conference are available from me at \$22.00 per set postpaid. A check to:

Bruce Muscolino
PO Box 9333
Silver Spring, MD 20916-9333

will get a copy on its way to you.

Date: Thu, 11 Dec 1997 21:54:13 -0500 (EST)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-l@Lehigh.EDU>
Subject: [32544] NT Fox 7.142 @ 0138Z
Message-ID: <Pine.LNX.3.93.971211215302.1731B-100000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Just got him :) The pile up is starting to get loud, go get 'em.

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- N3XRV ARRL-VE QRP WAS 27/10(w/c) | http://dns.vidtel.com/~ccart --
-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? NJ-QRP #105 LIQRP #???? --

Date: Thu, 11 Dec 1997 20:13:44 -0600 (CST)

From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-1@Lehigh.EDU>
Subject: [32545] NOGLM
Message-ID: <Pine.SOL.3.91.971211200726.29641A-100000@GPFN1.GPFN.SK.CA>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well I listened to Preston's faint signal qsb up and down here in Regina tonight...even though I couldn't get through I did hear him and that's progress!...wish Doc had been the Fox tonight because he had a solid 539 signal here while he was working Preston...we're still stretching out our "late Fall" weather here with daytimes highs of -5 dC, 0 dC, -1 dC and even a few PLUS temps like tomorrow's suppose to be +4 dC...unreal but we're loving it!!...72 from the Canadian Pelt Pushers...Bruce(VE5RC)

Date: Thu, 11 Dec 1997 21:09:09 EST
From: ac4gt@juno.com (nathan c tart)
To: mgipe@reliablemeters.com
Cc: qrp-1@Lehigh.EDU
Subject: [32546] Re: FAUX DX OPERATOR?
Message-ID: <19971211.211245.7927.1.ac4gt@juno.com>

I do want to sound like a FOOL but let's stop and think a bit when we put our special event calls on the air.. they are most certainly not going to be in buckmaster database either. A lot of short time special event / dx type calls are issued by the new republics and islands are not reported to Buckmaster.... the FCC database is not even 100 percent accurate.. (Just food for thought..)

Nate

Nathan C. Tart, Jr. AC4GT
Southeastern Radiosport Assn KF4FHC
1010 # 68463 ZUT
Charleston Hts., SC

Date: Thu, 11 Dec 1997 21:14:04 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>

To: "Buck, Preston D" <BuckPD@corning.com>, "Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group <QRP-L@Lehigh.EDU>
Subject: [32547] RE: N/T fox Thurs 11 Dec EST
Message-ID: <199712112118_MC2-2BAD-9C66@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Preston:

Well it was just *GREAT* to snag you as N/T+ FOX tonight. Conditions were interesting, to say the least. Some QSB, but I had you solid copy. The earlier QRM from SW broadcasters disappeared just in time.

Congratulations on outstanding operation tonight! Sounds like you are making good progress. You have good procedure and CW. Some elmer has given you good training and advice.

Thanks again for the QSO. Heard others work you right afterward, so sounded like you kept busy. Will be watching for your log. Best wishes for continued success, and happy holidays.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 56/42 <>< FOX Total 12/11/97 17 of 21. Was the FOX 11/25/97.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Auttek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Thu, 11 Dec 1997 21:47:19 -0500
From: "JakeCart" <JakeCart@ix.netcom.com>
To: <qrp-l@Lehigh.EDU>
Subject: [32548] Got NY -- only 41 QRPP states to go
Message-ID: <199712120246.UAA07674@dfw-ix1.ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Lets see, my Pixie II / MRX-40 / Tick Keyer combo has been on the air for

one week and I've worked 9 states. At this rate I'll have 468 states in one year. :-)

72,

Jake [N4UY]

QRP-L #821, G-QRP #9557, AK/QRP #175, CQrp #46,
NJ-QRP #74, NorCal#1457, ARCI #9392, FISTS #3450

WAS QRP W/C 48/47 (need HI and MS)

WAS QRPp W/C 9/1 (200 milliwatts on a Pixie II / MRX-40 / Tick Keyer combo)

Date: Thu, 11 Dec 1997 21:03:44 -0600
From: Jay Bromley <w5jay@cei.net>
To: qrp-l@Lehigh.EDU
Subject: [32549] Re: Back Issues of QRPp
Message-ID: <3490A990.79A2@cei.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Wilford D. Lindsey wrote:

>
> Jay:
>
> I heartily concur with your post. Bought the entire set, and believe it
> is one of the best investments I could have made. Very useful.
>
> So guys, rush out and buy these. You will not be disappointed.
>
> 72/73,
> --Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ARS 311 FISTS 3868 mn-qrp 19
> nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
> DXCC 56/42 <>< FOX Total 12/11/97 17 of 21. Was the FOX 11/25/97.
> -----
> Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er
> Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
> SLV/W6MMA G5RV Auttek QF-1 RS DSP-40
>
> "Things should be as simple as possible, but no simpler"--A. Einstein

Doc,

With the back issues of QRPp, The History of Qrp, and The Joy of QRP
its a wonder I get any sleep---hihi. Oh, not to mention QRP-L, all

those Foxes running around, and all the projects I need to finish!
73 de W5JAY

Jay Bromley
w5jay@cei.net

Date: Thu, 11 Dec 1997 21:20:11 -0600 (CST)
From: cdavis@unlinfo.unl.edu (Charles Davis)
To: qrp-1@Lehigh.EDU
Subject: [32550] DX !!
Message-ID: <199712120320.VAA15083@unlinfo2.unl.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Just finished reading another mouth watering tale from Joe, ab7tt, when I noticed that Joe is looking for number fifty for 2WAY QRP WAS (RI). That means that Joe has that rare state of NE. Has to be rare as I read somewhere that there are no hams in NE. Sure hard to chase the fox when the only transmitters available run 10 to 60 KW and have no key jacks. Got get a day job so I can chase the fox.

Chuck, ng0m (NE)

Charles Davis
cdavis@unlinfo.unl.edu

Date: Thu, 11 Dec 1997 19:41:14 +0000
From: flyer@hooked.net
To: qrp-1@Lehigh.EDU
Subject: [32551] Blue Film Write-up
Message-ID: <199712120340.TAA03956@mom.hooked.net>

Anyone interested in making PC boards with the recently discussed Blue Film, will find a great write-up on the subject at

<http://www.flexnet/~geotek/nars/techttop.htm>

Mark Smith Pleasanton, CA

Date: Thu, 11 Dec 1997 22:55:26 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:ccart@dns.vidtel.com" <ccart@dns.vidtel.com>, QRP-L Discussion Group
<QRP-L@Lehigh.EDU>, "Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [32552] NT Fox 7.142 @ 0138Z
Message-ID: <199712112258_MC2-2BAA-9DE3@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Chris:

Congrats, OM! Glad you found and snagged him. Preston was doing a really FB job tonight. Here's hoping lots of guys stopped by to encourage this new ham.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 56/42 <>< FOX Total 12/11/97 17 of 21. Was the FOX 11/25/97.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Thu, 11 Dec 1997 12:28:53 +0000
From: k5zty@juno.com
To: N9DD@aol.com
Cc: qrp-l@Lehigh.EDU
Subject: [32553] Re: FOX: Some days, you eat the bear...
Message-ID: <19971212.041338.3190.0.k5zty@juno.com>

Hi Tom,

I think your Fox procedure is fine. Especially your repeating the call of the station you're replying to after you give your report. Many times the hounds are still calling you when you give the callsign of the station that you have picked out of the pack. Hearing is about as hard on this end as it is on that one at that time. You probably could get by with saying " QRZ de N9DD" after working the last station tho because

everyone is listening at that point.
Great total for Wed. nite.
72,
Bill, K5ZTY
Houston, TX

Date: Thu, 11 Dec 1997 23:18:13 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:cdavis@unlinfo.unl.edu" <cdavis@unlinfo.unl.edu>, "Doc W.D. Lindsey/
K0EVZ" <70511.3041@compuserve.com>,
 QRP-L Discussion Group <QRP-L@Lehigh.EDU>
Subject: [32554] DX !!
Message-ID: <199712112322_MC2-2BAF-227D@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Chuck:

Don't know about Joe AB7TT--but I also really need RI/QRP. Have worked
RI but the guy was QRO (plus he hasn't/won't QSL :-(). But have never
gotten *anyone* in NE. Zip...nyet...nada...nil! So if you have any
leads to any QRP there, please share?! Would be a great favour.

Best wishes for a happy holiday season!

72/73,
--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 56/42 <>< FOX Total 12/11/97 17 of 21. Was the FOX 11/25/97.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Thu, 11 Dec 1997 22:55:22 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:rattray@gpfn.sk.ca" <rattray@gpfn.sk.ca>, "Doc W.D. Lindsey/K0EVZ"

<70511.3041@compuserve.com>, QRP-L Discussion Group <QRP-L@Lehigh.EDU>
Subject: [32555] N0GLM
Message-ID: <199712112258_MC2-2BAA-9DE2@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Bruce:

Wow!!!!!--can't believe you did not snag Preston tonight. You were probably 569 when I heard you right after snagging the FOX myself.

I left the hunt to answer the phone, assuming you were going into his log. Oh well. Shows how really coquettish Miss Forty Metres can be when she wants to be ;^).

Our winter so far is really wimpy, especially compared to last year. We have gotten only 4 inches of snow so far...and it is melting. Because it is expected to be 45+F on Sunday. It might be even warmer next week. But some remind the rest of us that January is coming...!

Anyway good luck during the future hunts. Best wishes for a happy holiday season.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqc 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 56/42 <>< FOX Total 12/11/97 17 of 21. Was the FOX 11/25/97.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Thu, 11 Dec 1997 20:26:32 -0800
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: ARDUJENSKI@aol.com
Cc: QRP-L <qrp-l@Lehigh.EDU>
Subject: [32556] Re: FAUX DX OPERATOR?
Message-ID: <3490BCF8.4662@vdbs.com>
MIME-Version: 1.0

```
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
```

Alan,

I don't know about that call, but I have found that alot of the DX that I work is not listed on the Buckmaster site. Most recently I worked a guy in Tonga. Neither his call or the one he gave as the "QSL to" call was listed on the Buckmaster site. I found an address in an old (1995) callbook and voila I got the card.

So while it may be faux DX, don't give it up based on it's not being listed on the Buckmaster site.

Good luck and Good DX.

--
73 de Jeff AC6KW
grudin@vdbbs.com

QRP-L #16 Private Practice : Companion Animals and
Exotics
Norcal QRP #1292 Ocean Animal Clinic / Cat Clinic of Santa
Cruz
Santa Cruz,
California

QRP'ers do it with less energy (but lot's of enthusiasm)!

Date: Thu, 11 Dec 1997 22:55:32 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:JakeCart@ix.netcom.com" <JakeCart@ix.netcom.com>, "Doc W.D. Lindsey/
K0EVZ" <70511.3041@compuserve.com>,
QRP-L Discussion Group <QRP-L@Lehigh.EDU>
Subject: [32557] Got NY -- only 41 QRPp states to go
Message-ID: <199712112258_MC2-2BAA-9DE4@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Jake:

Hmmmmmm.... Must be the New Math ;^). If you up this weekly rate, you might actually push to a total over 500 states! Reminds me of the bookkeeper who drowned in a lake with an average depth of [only] 7 inches...

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 56/42 <>< FOX Total 12/11/97 17 of 21. Was the FOX 11/25/97.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Thu, 11 Dec 1997 21:27:57 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:ccart@dns.vidtel.com" <ccart@dns.vidtel.com>, QRP-L Discussion Group
<QRP-L@Lehigh.EDU>, "Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [32558] N/T Fox??
Message-ID: <199712112131_MC2-2BA9-7A29@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Chris:

Managed to snag him at 0020 on 7141.9. He was 559 here, with gently rolling QSB. A few minutes before the hunt started there was BC SW QRM everywhere...but by the time we QSOed it was diminished. Thank goodness.

Preston was doing a good job. He has good CW and uses correct operating procedure. It was a pleasure to talk with him tonight. Ope you eventually found him!

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 56/42 <>< FOX Total 12/11/97 17 of 21. Was the FOX 11/25/97.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom

SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Thu, 11 Dec 1997 20:51:12 -0800
From: David Smith <qrp-dave@ocsnet.net>
To: QRP-L@Lehigh.EDU
Subject: [32559] Livermore Swap Meet Special
Message-ID: <B00000268668@ocsnet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Fellas!

I believe in 1995, an article appeared in QRPP about a very portable, table top antenna called "The Livermore Swap Meet Special," with a counterpoise. I have made a variation and used it on 40M per the article. I am wondering if one of you antenna "sharpies" might know dimensions, etc. for a 10M 15M and 20M model. I am somewhat limited in what I can do for an antenna in a portable situation and such antennas would be most useful. Portability is very important to me, as about the only operating that I can do is when I am portable. Thanks in advance, guys and gals.

QRPDave

Date: Thu, 11 Dec 1997 23:58:08 -0500 (EST)
From: Fran Flynn <fflynn@together.net>
To: qrp-l@Lehigh.EDU
Subject: [32560] 2n2222 projects
Message-ID: <199712120458.XAA16886@sequoia.together.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Some designs using 2n2222's by Steve, KD1JV and myself, can be seen on my web page. Both are in circad and jpeg format. No hand drawn schematics, these look pretty nice, if I might say so.

Thanks

km1z's page

Fran Flynn
amateur radio: KM1Z
email: fflynn@together.net
web page: <http://together.net/~fflynn>

Date: Thu, 11 Dec 1997 23:23:30 -0600 (CST)
From: Adrian Weiss <aweiss@sunflowr.usd.edu>
To: QRP-L@fidoi.cc.lehigh.edu
Subject: [32561] W0RSP & The FOX -- First Time
Message-ID: <Pine.SOL.3.94.971211231118.23687D-100000@sunburst>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi gang -- so now I know what FOX hunting is all about! Wow! I stumbled across the pileup last nite -- usually have the rig on 7040+/- when I'm working on the computer, and everynow and then lean over and do a sweep. Holy crow! Couldn't be a DX station under that pile-up -- it was like the wolf-packs on 20m with laryngitis, just not enough oomph. So, I knew instinctively that it had to be a QRP pack, which it was. I've wondered, and read about it, so I knew instantly that this was the fabled FOX Hunt! I sat just listening to this new phenomenon. It was music -- not just music, but an incredibly large symphony orchestra. I couldn't believe it. Back when we ran the old NETs in the 1970's, having a dozen guys check-in was just overwhelming. But here I was listening to a veritable pile-up of so many QRP signals that I couldn't begin to imagine how that was possible. Things sure have changed in the QRP world! Eventually it occurred to me that I ought to give it a try. No real confidence -- my crummy antenna. So I'd lean back and reach to the NorCal paddle and fire off W0RSP. Nuttin. Am I serious or not, I asked myself? If I'm serious, strategize and forget the computer. Shifted around a couple times and believe it or not, I must have been out at the fringe of the pack when the FOX came back to me at 0120. Made about a dozen calls before that. So, I worked the FOX. I listened until about 0300 -- incredible!

Then I got to thinking -- once you've worked the FOX, the fun is over, and all too quickly -- 35 seconds or so. Maybe we ought to work out a plan for sliding down the band a couple of Khz and going for routine QSO's. Who knows...

Or, we could do a dual operation. The FOX stays up there working QRP'rs, and the JOY sits lower, working those who worked the FOX.

Incidentally, only a couple sigs were 579, but a whole heck of a lot were

respectable 569's and Q5 559's. So, even if you didn't score, your signal was probably Q5 here in SD.

73, Ade W0RSP

Date: Thu, 11 Dec 1997 22:21:04 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: "David A. Case" <dc422@bard.edu>
Cc: "Dale L. Martin" <kg5u@hal-pc.org>, Bruce Makas <k1my@nllis.net>, antennas@qth.net, CQ-CONTEST@contesting.com, dx@ve7tcp.ampr.org, towertalk@contesting.com, yccc@contesting.com, ham-books@qth.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [32562] Re: [Antennas] Re: [YCCC] Re: [TowerTalk] old books
Message-ID: <Pine.BSI.3.96.971211221710.7100B-100000@usr04.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 11 Dec 1997, David A. Case wrote:

> There are lots of used book stores that would buy your books for various
> amounts of cash. The used book market is surprisingly large, and
> widespread (your books might be resold in Scandanavia.)
>
> In college, at the end of the semester, I would go through the trash and
> pick up textbooks. I would sell them for either credit or cash, and I
> financed most of my library like that.
>
> If one bookstore turns a book down, than try another.
>

As of last Tuesday, I officially became a used book dealer, specifically for used technical books. Yes, there is a fairly good market out there, but you have to know what does and does not sell. Older texts from the 30's to the 60's are great for technical content, but some of the newer (\$90+) texts are worthless. I use the net proceeds to purchase books for my library.

If anyone has books that they simply feels aren't worth keeping, I would certainly like to know about them.

,-----.
/ What's all this \
/ extinct stuff, anyhow? /
\ -----'

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY

Remove the cq_de to email me, I hate SPAM!

Date: Thu, 11 Dec 1997 23:20:25 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-1@Lehigh.EDU
Cc: cdavis@unlinfo.unl.edu
Subject: [32564] Re: DX !
Message-ID: <199712120620.XAA24974@usr07.primenet.com>

Howdy Folks,

Chuck (NGOM), Elusive NE QRPer wrote:

>
> ... I noticed that Joe is looking for number fifty for 2WAY QRP WAS (RI).
> That means that Joe has that rare state of NE. Has to be rare as I read
> somewhere that there are no hams in NE.

Darn right! Know why there aren't any Hams in Nebraska?
It's a big secret... But if you promise to keep it to
yourself.... *nod* *wink* *Little Rascals Hi-Sign*....

OK.... Gov't experiment gone awry. Yep. Giant Carniverous
Prairie Dogs (GCPDs). And here's the kicker - they're
attracted to RF!!! Yep. The Gummint genetically engineered
'em for behind-the-lines sabotage. They were to be air-
dropped well behind the FEBA, where they'd home in on the
comm sigs of command centers and eat the inhabitants. Or
just gnaw 'em alot and save 'em for later. Ugly. Kept 'em
in NE, hidden in an abandoned Sears catalog warehouse.
One day they got out. That's when NE went off the air....

"But Joe," you say, "that's ludicrous! Why is Chuck still
around?" Ahhh.... Power levels folks. Chuck is a QRPer.
When he operates at home, his power is so low that they
can't find him. QRP saved this man's life! The 60 KW he
runs at his job is too strong and repels the nefarious
Rodents of Doom. All those in between were nibbled into
oblivion.

The only two NE QSOs I've ever had were with Chuck and
KGORD, also a QRPer. Milliwatter, as a matter of fact.
Therefore I have solid data to substantiate my claim.

So take good care Chuck. We'll be listening for you.

Quietly. Carefully. No sudden moves. I still owe you for our QSO during FSFD, so if you need backup or an airlift, you just holler. We'll grant you safehaven in Prescott. Guaranteed 100% GCPD-Free. We're already setting up another QRPer there for safety. Some Texan. ;-)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"... here's WB0QRO in Omaha, running a full kilowatt into my... what the... AAIIEEEEE!!!! *nibble nibble nibble*"

Date: Fri, 12 Dec 1997 01:25:34 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:dlevans@hsonline.net" <dlevans@hsonline.net>, "Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group <QRP-L@Lehigh.EDU>
Subject: [32565] Re: Vertical Antenna Question
Message-ID: <199712120127_MC2-2BB5-16A9@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Dan:

Forgive a real "Newbie" question--but where can one obtain this antenna? I should probably know, but have missed it somehow. Thanks in advance for the info!

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqc 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 56/42 <>< FOX Total 12/11/97 17 of 21. Was the FOX 11/25/97.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Fri, 12 Dec 1997 01:25:29 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:aweiss@sunflowr.usd.edu" <aweiss@sunflowr.usd.edu>, "Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>,
QRP-L Discussion Group <QRP-L@Lehigh.EDU>
Subject: [32566] W0RSP & The FOX -- First Time
Message-ID: <199712120127_MC2-2BB5-16A8@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Ade:

Well congrats on snagging Tom last evening. The whole thing is probably less than 35 seconds at the rate it was going last evening--but it is still a kick for this old guy (licensed 37 years!).

But I think you have a good idea...about some sort of "afterglow" for those who have snagged the FOX. How about some sort of 2- or 3-way "FOXhunt"-type evening where you get multipliers for working both or all three in the same evening. Bet this would really even things out. Could spread the FOXes out along the band and geographically. Might even include the FOXes themselves as hunters, if the hours were somehow staggered. Hmmm....

On a personal note...how about you and me setting a sked on 40? I *really* need SD for my QRP/WAS. Don't hear many guys on there from SD, especially QRPers. What do you think? I would be available all this weekend, at your convenience. *PLEASE* <VBG>.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 56/42 <>< FOX Total 12/11/97 17 of 21. Was the FOX 11/25/97.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Fri, 12 Dec 1997 13:57:18 -0700 (GMT)
From: "<HS2JFW/QRP, Joe>" <a37s0112@daisy.bu.ac.th>

I also use hotmail.com as my e-mail account for year.
I never got mail like that.
I think hotmail.com are still very good free email account
73 , Joe

ARDUJENSKI wrote:

```
>
> Last nite 40M was really open late. Got a call from "PV5P" only to find out
> the station according to BUCKMASTER doesn't exist. This is the third such FAUX
> DX that I have gotten in the last 4 months. All abt 0300-0500 UTC.
>
```

I remember working 5Y4GT back in my novice days.

Henry

Date: Thu, 11 Dec 1997 11:24:35 -0500
From: "david's" <elim@ime.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [32569] FS or Trade: Bug
Message-ID: <00a101bd0651\$45a4fc80\$31c65ad1@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

Good morning all,

I Have a very clean TACO (Telegraph Apparatus Company) Bug for sale or trade.
It was made in 1944 and TACO was owned by T.R. McElroy. Very nice bug with original box Asking \$150. plus shipping Or will Trade for Qrp Rig of Equal Value.
say OHR 100a or Similar.
73 Dave Kc1di

Date: Fri, 12 Dec 1997 06:34:30 -0500
From: Peter_Simpson@3com.com
To: qrp-l@Lehigh.EDU
Subject: [32570] Index Labs QRP+ for sale - \$400
Message-ID: <8525656B.003E7A7C.00@hqoutbound.ops.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii

I have decided to sell my Index Labs QRP+ (s/n 1255) to open up some space in my shack. I bought it about a year and a half ago from a QRP-L member and it is in the same pristine condition it was when I received it.

- Manufactured 10/95
- Factory firmware upgrade (keyer fix)
- No modifications
- Includes original manual and all documentation

- Excellent condition
- Includes MFJ (factory) microphone (no extra charge :-)
- Catches foxes.

Price: \$400, including shipping to US address.

Peter Simpson, KA1AXY

peter_simpson@3com.com (work, weekdays)
ka1axy@amsat.org (home, weekends)

(508) 229-1531 (work 0600 - 1500 Eastern)
(508) 429-7069 (home)

Date: Fri, 12 Dec 1997 07:00:01 -0600
From: Chuck Carpenter <w5usj@webwide.net>
To: qrp-l@Lehigh.EDU
Subject: [32571] Re: Physicists, Shacks, Messes
Message-ID: <3.0.1.32.19971212070001.00690d18@mail.webwide.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I think getting the kids to clean up the shack would come under a
little-known branch called "Tolkien Physics." 8^)...
.

Chuck Carpenter
Point, Rains Co., TX 75472

Date: Fri, 12 Dec 1997 08:10:24 EST
From: n3aaz_qrp@juno.com (N3AAZ - John)
To: qrp-l@Lehigh.EDU
Subject: [32572] RE: Vertical Antenna Question
Message-ID: <19971212.080811.4319.0.n3aaz_qrp@juno.com>

RE: Vertical Antenna Question

My best performing vertical antenna (sold by Radio Shack, about \$15) is
the 102 inch

replacement whip. Several mounting accessories are available also and most include the PL connector. I find this antenna extremely versatile and very easy to adjust. A matching network or tuner is required ("73" Feb. 97 page 21, figure 1b).

N3AAZ

Date: Fri, 12 Dec 1997 08:34:18 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "Doc W.D. Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [32573] SOLD!--TenTec Argo 515
Message-ID: <199712120838_MC2-2BB5-378A@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Gang:

Well the TenTec ARG0 515 has found a new happy home. Will ship it a little later today. The new owner will be receiving a real gem :-).

Thanks to the huge number who responded (some even overseas!). Wish I could have sent an Argo to everyone, but they are rare items.

Here's wishing everyone a happy holiday season.

72/73,
--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 56/42 <>< FOX Total 12/11/97 17 of 21. Was the FOX 11/25/97.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Auttek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Fri, 12 Dec 1997 09:02:41 -0500

From: Michael Maiorana <mikemo@ibm.net>
To: qrp-1@Lehigh.EDU
Subject: [32574] Re: Need a regen schema
Message-ID: <34914401.39BE@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Last night I built the regen receiver that Paul Harden, NA5N, posted last week. This is the first "RF" electronic project I've built (I'm a "digital man"). Needless to say, it does not work (except for tuning a local "Hard Rock" FM station).

I think my coil is wrong. I wound 16 turns of #22 hookup wire around a 35mm film holder with a tap soldered on at 4 turns. The windings are spaced to cover the whole thing. Should I have used enamel wire and wound it closely spaced? Should I leave it on the plastic can or do I need to remove it?

Also, I can't get it to oscillate. I used a surplus air variable for the cap (20 - 300pf). I connected the chassis of the cap to the ground side and the rotor to the other. I also have 3" wires connecting the cap to the circuit board. Is this a problem.

I checked my wiring once, but it was late and I was getting bleary eyed. I will check the circuit again tonight.

Any advice for a rookie??

Thanks

72 de kf4trd

Mike Maiorana

--

If it's tourist season, why can't we shoot them?

Date: Fri, 12 Dec 1997 09:54:11 -0500 (EST)
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>
To: qrp-1@Lehigh.EDU
Subject: [32575] Re: FOX: Sometime you should identify--when?
Message-ID: <35651.owen@piper.eeel.nist.gov>

In message Thu, 11 Dec 1997 17:13:08 -0800,
Vic Rosenthal <rakefet@rakefet.com> writes:

>> And besides the FCC regs, (97.119) requires you to

>> ID at least every 10 minutes and at the END of every contact. Whether
>> > > that contact lasts 30 seconds or 3 hours.
>
> I need to look this up. I have a feeling that this is not the case any
> longer...the FCC rules are somewhere on the web, I'll look and see.
>
> Vic K2VCO
>

97.119 Station identification

(a) Each amateur station,, must transmit its assigned call sign on its transmitting channel at the end of each communication, and at least every 10 minutes during a communication, for the purpose of clearly making the source of the transmissions from the station known to those receiving the transmissions.

(b) The call sign must be transmitted with an emission authorized for the transmitting channel in one of the following ways.

(1) By a CW emission. When keyed by an automatic device used only for identification, the speed must not exceed 20 WPM;

(2) By a phone emission in the ENGLISH language. Use of a standard phonetic alphabet as an aid for correct station identification is encouraged.

Now the question is, in a contest exchange is the definition of "end of each communication" the end of each contact or the end of the contest? In a contest or even a net you haven't stopped the communication until the end. Also note that if you hold a license issued by the Federal Communication Commission you are required to identify in ENGLISH.
Hope this has helped a little. 72 Jim K4CGY qrp-1 #72

Date: Fri, 12 Dec 1997 09:11:03 -0500
From: James Wells <JDWELLS@fcc.gov>
To: QRP-L@lehigh.edu
Subject: [32576] Nor Cal NC38 Special
Message-ID: <s4910dc9.003@fcc.gov>
Mime-Version: 1.0
Content-Type: text/plain
Content-Disposition: inline

Anybody out there have a NC38 Special still in kit form that you would like to sell. I am in need of that SPECIAL Christmas present!

Thanks

Jim (KE5Q)

Date: Fri, 12 Dec 1997 07:24:08 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [32577] Re: FAUX DX OPERATOR?
Message-ID: <Pine.SUN.3.90.971212072301.20468D-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 12 Dec 1997, Henry Freedenberg wrote:

> What we need is a new award...WAFDX (Worked All Faux DX)
>
> I remember working 5Y4GT back in my novice days.

The best "slim" I worked was 2X4W00D. I think everyone knew
it was phony but it was just too much fun to pass up!!

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Fri, 12 Dec 1997 08:52:55 -0700
From: "Ron Smith" <resmith@primenet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [32578] Re: paddle kit in NH
Message-ID: <01bd0716\$02d17bc0\$3122a5ce@primenet.com.primenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I am a Happy Camper. Yesterday, with a sigh of relief, the postlady slipped
a Priority Mail container into my mailbox. With a big grin on her face, she
put her finger along side her nose and disappeared in a puff of smoke.

I think I will disappear to the work bench.

72 to all

Ron

-----Original Message-----

From: Chris Cartwright <ccart@dns.vidtel.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Date: Wednesday, November 12, 1997 9:21 AM

Subject: Re: paddle kit in NH

>On Tue, 11 Nov 1997, Terres Family wrote:

>

>> mine arrived recently a while back and was in good shape. maybe its the

>> recent rain/earthquake/solar flare..

>

>Mine arrived in MD in pristine shape. All those mailmen west of the

>Mississippi must just be in too much of a hurry to get home and go

>foxhunting :)

>

>-- Chris Cartwright, Technical Engineer |
art@vidtel.com --

>-- N3XRV ARRL-VE QRP WAS 27/10(w/c) |
rt@erols.com --

>-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? |

http://dns.vidtel.com/~ccart --

>

>

>

Date: Fri, 12 Dec 1997 11:01:56 +0000

From: "Benjamin F. Poinsett" <benmail@erols.com>

To: qrp-l@lehigh.edu

Cc: benmail@erols.com

Subject: [32579] Headset for the Sierra

Message-ID: <3491199F.397E@erols.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hi gang,

A few days ago I asked for suggestions for a headset for my Sierra. I'd like to thank all the folks who replied to this

request. I got some great ideas and will investigate them.

It's great to have the QRP-L as an excellent source of information to support our interests in this fascinating hobby.

72 & 73,

Ben Poinsett, K3BP QRP-L #421

Date: Fri, 12 Dec 1997 09:41:57 -0500
From: Peter_Simpson@3com.com
To: qrp-l@Lehigh.EDU
Subject: [32580] QRP+ emails
Message-ID: <8525656B.00505629.00@hqoutbound.ops.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii

I'm still offering my QRP+ for sale as noted in my previous posting, but I have just been informed that my work email is going to be "upgraded". This does not usually go without some problems, so I may not be able to receive or send email from work for several days.

Therefore, I'd like to request that those interested in the QRP+ use my <ka1axy@amsat.org> home email address or phone me at the numbers below.

Sorry for the inconvenience,

Peter, KA1AXY

(508) 229-1531 (work, 0600 - 1500 Eastern)
(508) 429-7069 (home)
ka1axy@amsat.org

Date: Fri, 12 Dec 1997 08:09:57 -0800
From: Vic Rosenthal <rakefet@rakefet.com>
To: henryf@quartz.gly.fsu.edu
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [32581] Re: FAUX DX OPERATOR?
Message-ID: <349161D5.A7C07C81@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Henry Freedenberg wrote:

>
> What we need is a new award...WAFDX (Worked All Faux DX)
>
> I remember working 5Y4GT back in my novice days.

Actually, there was a legitimate 5U4GB at one time!

Vic K2VCO

Date: Fri, 12 Dec 1997 09:10:44 -0700
From: ji3m@maxwell.com (James R. Duffey)
To: Bill Myers <bjmyers@arc.net>
Cc: qrp-1@Lehigh.EDU
Subject: [32582] Ideas for Your 5/8 Wavelength Vertical (long)
Message-ID: <v0213050db0b704047963@[192.31.66.158]>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Bill - You asked for it;

"I am considering putting up a gutted out 5/8 wave CB antenna (20 feet high)
for a vertical. =8A

Recommendations, suggestions, problems???????"

Before you do anything with a vertical antenna, you should read W4RNL, L.
B. Cebik's comments on verticals, grounds, and (ground) plane antennas on
his web page;

<http://funnelweb.utcc.utk.edu/~cebik/radio.html>

The information located there should be required reading for anybody using

verticals. It contains lots of good information backed up by modeling. No conjecture here. If everybody read and understood it we would not have prolonged discussions on this forum about the usefulness of radials.

On to my suggestions;

I would make the height of the antenna a full $5/8$ wave on 10 M which is about 21 or 22 feet. If you make it longer, then you start to get some high angle radiation. You can calculate the exact value and then trim accordingly. If it is a $5/8$ wave CB antenna you may have to reduce the height a bit, although if it is exactly 20 ft you will probably have to extend it a bit. Most hardware stores have $3/4$ inch and 1 inch aluminum tubing which will work fine to extend it.

An antenna of this length will work fine, that is have low angles of radiation, on all bands from 10 M to 30 M. On 30 M it is just short of a quarter wave. It will also work on 40 M, but with reduced efficiency. You can probably load it on 80M, but there are much more efficient antennas that can be used at the same height.

You can feed it with the balanced line, but I recommend a simple L network at the vertical feedpoint and coax feed from there. A remotely switched or tuned L network can be ginned up pretty easily. If you can swing the cost, the LDG autotuner located at the antenna feedpoint is ideal for this application.

The problem with the 450 Ohm balanced line feed is that the antenna you are describing is inherently unbalanced, which will result in unbalanced currents in the feeders, which will result in feeder radiation. Feeder radiation is difficult to control and almost always results in radiation in undesirable directions; namely straight up, and depending on how the feedline runs, horizontally polarized.

If you use coax and a tuner or switched network, be sure to use a 1:1 choke (sometimes called a "current balun") at the antenna. You can make one by wrapping small diameter coax (RG58, or RG141 if you want to get fancy) around a low permeability ferrite toroid. You should check the feedline for current on the outside of the coax using a small diameter loop connected to a flashlight bulb or sensitive (500 uA) meter. Do this on all bands, starting on the highest. Put a similar 1:1 choke everywhere you find a current maximum on the feedline. You may wish to add one at the rig as well. These chokes will insure that you are using the vertical as the intended antenna, and not some combination of feeder, radials and power line ground.

Use radials cut for each band. You can get guidance from Cebik on the length. To prevent horizontal radiation from $1/4$ wave radials you may wish to fold them. deVoldere, ON4UN, in his book "Antennas and Techniques for

Low Band Dxing" describes how to do this in the section on top fed verticals.

Provide static discharge protection at the antenna. You can do this by shunting the feed point with a high value RF choke, or a high value, say 50kOhm 2 watt resistor. The wattage should be increased for QRO operation. This will also reduce some forms of noise, primarily precipitation static. You can also use it to check feedline integrity. This will not provide protection from lightning, which you should address as well. Look at the Polyphaser page.

You should probably do some "reconditioning" of the antenna before you put it up. Clean the inside and outside of each tubing pair where they join and put it back together using a conductive paste such as "NOALOX" at the joints. This paste is available at electrical supply houses for joining aluminum conductors. Depending on the weather at your QTH, you can easily strengthen the tubing where they join by inserting a wooden dowel inside the tubing.

Such an antenna fed with an automatic tuner should perform as well or better than commercial antennas of a similar length, such as the R-7, at a lower overall cost, even if you use the LDG autotuner.

Let us know how it all works out. - Duffey KK6MC/5

James R Duffey KK6MC/5 DM65
30 Casa Loma Road
Cedar Crest, NM 87008

Date: Fri, 12 Dec 1997 09:10:28 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: cqclist@lists.csn.net, qrp-1@Lehigh.EDU
Subject: [32583] Snowshoe Run Tomorrow Night
Message-ID: <199712121610.JAA05711@bobcat.sni.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Getting close now... the Great Colorado Snowshoe Run kicks off at 8:00pm tomorrow night (MST). It's a two hour sprint with some unusual rules and I hope to see all of you there.

Check the rules at: <http://www.mtechnologies.com/mthome/cqc.htm>

I'll post them here one last time tomorrow, or in the meantime you can request a copy by e-mail.

Don't forget there's a Sled Team competition, too-- just let ME know the Sled Team Name, Driver and sled dogs' callsigns by noon tomorrow.

The two CO teams (Mush Puppies and Snow Blind) have been put on notice by the "Texas Yahoo Tennis Shoe Runners" headed up by "Bill aka Zed", K5ZTY, who says they'll be causing 40M gridlock around Houston.

Actually our secret plan is to generate enough RF energy to melt the snow here in CO-- your help, as always, appreciated.

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
Milestone Technologies
Software, kits, tools...
<http://www.mtechnologies.com/mthome>
(303)752-3382
--

Date: Fri, 12 Dec 1997 09:13:15 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: owen@piper.eeel.nist.gov
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [32584] Re: FOX: Sometime you should identify--when?
Message-ID: <3491002B.4AFDFDB1@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The FCC considers a "communication" to be a contact between two stations. A contest is not a single communication, but a series of them.

72...Roger, N7KT

Date: Fri, 12 Dec 1997 16:12:18 -0000
From: "=?ISO-8859-1?Q?Juan_Antonio_L=F3pez=2C_EA8QJ=2C_EA-QRP_#196?="<jalopezd@arrakis.es>
To: <qrp-1@Lehigh.EDU>
Cc: <qujota@arrakis.es>
Subject: [32585] VW' mito
Message-ID: <199712121617.RAA28293@mx1.landsraad.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi gangs,

Do you know the new mito model?.

Pls. check out this URL:<http://www.cistia.es/m.molina>, where you can get the mito information from.

73

Date: Fri, 12 Dec 1997 09:19:35 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: cqclist@lists.csn.net, qrp-1@Lehigh.EDU, CQC.Officers@bobcat.sni.net, Committee.Chairs@bobcat.sni.net
Subject: [32586] We're not hiding!
Message-ID: <199712121619.JAA07212@bobcat.sni.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

If you experience difficulties in reaching the Colorado QRP Club, N1FN, or Milestone Technologies web sites over the weekend it is because we are moving. The disruption should only temporary (and possibly non-existent if we have done this right).

We're changing servers, and addresses. The basic address will change from <http://www.mtechnologies.com/mthome> to <http://www.mtechnologies.com> and all addresses for subsidiary pages will drop the "mthome" part of the address and the filename suffix. For example, <http://www.mtechnologies.com/mthome/cqc.htm> will become <http://www.mtechnologies.com/cqc>.

We've set up jumper pages so the old addresses will work, but please update your bookmarks when you encounter the jumper.

E-mail for anyone at mtechnologies.com is also being re-routed, but that should be completely transparent.

It's just possible that we have covered all the bases, but if we haven't please be patient!

Date: Fri, 12 Dec 1997 08:29:25 -0800 (PST)
From: Stanley Wilson <microres@crl.com>
To: qrp-1@Lehigh.EDU
Subject: [32587] FS: PIXIE 2 - 40 meters
Message-ID: <Pine.SUN.3.91.971212082632.10956B-100000@crl5.crl.com>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

For Sale: Pixie 2 built in a 4" x 2" x 1" plastic case (blue). Fits in your shirt pocket. Looks nice. 7040 xtal. Connectors for power, audio, key and antenna. Price \$40.00 shipped in US.

de stan ak0b
microres@crl.com

Date: Fri, 12 Dec 1997 08:43:04 -0800
From: Brian Kassel <bkassel@dancris.com>
To: kd4kzq@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [32588] Re: RTTY/QRP
Message-ID: <34916998.5EA5@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

jim norsworthy wrote:

> Gang:
> So if
> you were thinking of RTTY at the QRP level let me tell you " it really

> gives you a big rush". I plan on trying to a lot more of this type of
> contact.

> 72/73 de Jim KD4KZQ

Jim et All:

You might Try Pactor as well. It's a lot more efficient than RTTY,
and by monitoring the error light on your controller, you can reduce
the power to amazing levels, and still maintain a good throughput.

I ran a Pactor/AMTOR BBS here for several years, and had a circuit
that
reduced power automatically. The BBS would transmit for hours
every day, and the for the great majority of that time, the rig
was at 10 watts or below. On 30M, many, many, transmissions
were made with less that 1 watt. The little circuit that I built
really kept the heat down in the shack!

--

Brian Kassel W5VB0
ARCI # 3623
Phoenix AZ ScQRPions

Date: Fri, 12 Dec 1997 11:54:20 -0500
From: Zack Lau <zlau@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [32589] Re: Vertical Antenna Question
Message-ID: <34916C3C.3B62@arrl.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike Pender wrote:

> This antenna is by far the most bang
> for the
> buck anywhere.

You get a bigger signal (more bang) with a dipole
over steeply sloping ground (you did say anywhere).
With good ground slope, a 15M dipole can perform
quite well over long paths just 20 ft off the ground
(like KH6 to East Coast--N1RL said I worked K1ZZ with
his beam at Europe...)--Zack W1VT

Date: Sat, 13 Dec 1997 00:55:04 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: qrp@pandora.lugs.org.sg
Subject: [32590] DB-25 Challenge?
Message-ID: <34916c68.pandora@pandora.lugs.org.sg>

Hi,

Sometime ago I remember reading in one of the QRPp issues about the DB-25 challenge. I wonder if anyone succeeded in eventually building the xcvr into the shell?

Is there a contest where size matters? Ie. build as small a transceiver as possible, no limit on parts, type, band of operation, but should be at least single conversion, etc. etc. Anyone tried this?

Thanks.

73 de 9V1ZV Daniel

p.s. I just built a CI-V interface into a DB-9 shell using SMT parts and that's what got me thinking about this, a QRP sized rig :-)

--

```
+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                               |
| QRP-L #667 | 9V1ZV@amsat.org             |
+-----+
```

Date: Fri, 12 Dec 1997 09:21:02 -0800
From: Vic Rosenthal <rakefet@rakefet.com>
To: owen@piper.eeel.nist.gov
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [32591] Re: FOX: Sometime you should identify--when?
Message-ID: <3491727E.56F44B13@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

James C. Owen, III wrote:

> 97.119 Station identification
> (a) Each amateur station,, must transmit its assigned call
> sign on
> its transmitting channel at the end of each communication, and at
> least
> every 10 minutes during a communication
>
> Now the question is, in a contest exchange is the definition of "end
> of each
> communication" the end of each contact or the end of the contest? In a
> contest or even a net you haven't stopped the communication until the
> end.

Interestingly, I looked in the 'definitions' section of part 97, and the word 'communication' was not included!

Vic K2VCO

Date: Fri, 12 Dec 1997 12:19:50 -0500
From: "Kevin F. Glynn" <kfglynn@prodigy.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>, "NJ-QRP" <njqrp@njqrp.org>, "LIQRP" <liqrp@waterw.com>
Subject: [32592] R5 Vertical beats my 10M dipole? Comments welcome
Message-ID: <199712121718.MAA66246@mail1y-int.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi gang,

For the 10M contest this weekend I'm planning on working primarily during the morning and afternoons. Have parties Fri and Sat night.

I had a 40M coax center-fed bent-leg dipole with a 44' flattop and (2) 11' legs sloping towards the roof, about 8 or so feet off a 3 story brownstone house. Works very well on 40M.

I took it down and replaced it with a 10M dipole fed with 12' RG-8x. Wound a coax choke with 4' coax into 7 turns per ARRL Ant Book at feedpoint. Connect this to RG-213 running to shack. The ant was a bit long, resonant down around 26 MHz, so I trimmed and on the nose around 28.300 MHz, 1.4:1, about 60-70 ohms on roof per MFJ-259. The shack end a bit lower SWR, maybe due to feedline losses.

Anyway, the R5 vertical is on a 10' pole on roof and it seems to beat the

dipole by plenty on most of the sigs I heard yesterday. (Left work early yesterday to install new 10M dipole). Does this make sense? I had to install the dipole in approx. an E-W config, since that's what I had to work with.

Any ideas? I realize the foam is not the best for coax chokes, but it's what I had and is hands down better than anything RS sells as far as coax. Didn't want the added weight of RG-213 in temporary choke.

If you've experienced a vertical beating the pants off a dipole at relatively same height pls let me know. Don't have the time or parts to raise the dipole a bit off the roof.

Thanks

72 Kevin N2TO
Brooklyn, NYC
kfglynn@prodigy.net

Date: Fri, 12 Dec 1997 09:29:13 -0800 (PST)
From: David Feldman <dgf@netcom.com>
To: qrp-l@Lehigh.EDU
Subject: [32593] Texas Butcatcher - supplier phone #?
Message-ID: <199712121729.JAA16875@netcom4.netcom.com>

This is only partly qrp (I promise I'll run mobile QRP with it!) but I need the phone # of the outfit that makes the texas bugcatcher - they have ads in recent QST issues - if you have a QST handy could you look up their phone# and e-mail it to me?

Thanx!

73 Dave WB0GAZ dgf@netcom.com

Date: Fri, 12 Dec 1997 12:41:31 -0500
From: The Whittemores <wb1ledi@scoot.netis.com>
To: qrp-l@Lehigh.EDU
Subject: [32594] RTTY/QRP
Message-ID: <1.5.4.32.19971212174131.006a9050@mail.netis.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

i ran the tara contest last weekend with qrp levels. i got 13 qs including 2 in wa. and mt from nh. i ran a pk232mbx and an icom 725 at 5 watts into an

indoor dipole. yes thats right indoor dipole. i had 12 qs on 20m and one on 40 including 10 states and 1 dx contry (vp5jm) oh did i mention that they were my first ever rtty qs. it was fun. i want to run the roundup but with outdoor antenna and maybe 50 watts or so.

73

barry

wb1edi

Barry L Whittemore

WB1EDI QRP-L NORCAL ARRL MVP AMC BSA NEQRP ARS OA

check out my web site

<http://www.netis.com/members/wb1edi>

wb1edi@scoot.netis.com

Date: Fri, 12 Dec 1997 12:42:20 -0500

From: "Kevin F. Glynn" <kfglynn@prodigy.net>

To: "QRP-L" <qrp-l@Lehigh.EDU>, "NJ-QRP" <njqrp@njqrp.org>, "LIQRP" <liqrp@waterw.com>

Subject: [32595] Cheap Wire for antennas at Home Depot

Message-ID: <199712121740.MAA31900@mail1y-int.prodigy.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Hi gang,

FYI

Home Depot has single conductor insulated straded wire pretty cheap in 500' spools.

I've bought 3 rolls of 14 ga at \$19 in NYC area, and a roll of 16 and 18 ga for a few bucks less per roll.

It's probably going to stretch, but hey for the money, and mostly for my field antennas fed with ladder line to tuners, can't beet the price.

CUL

72 Kevin N2T0

Brooklyn, NYC

kfglynn@prodigy.net

Date: Fri, 12 Dec 1997 12:58:54 -0500
From: "Kevin F. Glynn" <kfglynn@Prodigy.Net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [32596] R5 Vertical beats my 10M dipole? Comments welcome
Message-ID: <199712121758.MAA56432@mail1y-int.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi gang,

For the 10M contest this weekend I'm planning on working primarily during the morning and afternoons. Have parties Fri and Sat night.

I had a 40M coax center-fed bent-leg dipole with a 44' flattop and (2) 11' legs sloping towards the roof, about 8 or so feet off a 3 story brownstone house. Works very well on 40M.

I took it down and replaced it with a 10M dipole fed with 12' RG-8x. Wound a coax choke with 4' coax into 7 turns per ARRL Ant Book at feedpoint. Connect this to RG-213 running to shack. The ant was a bit long, resonant down around 26 MHz, so I trimmed and on the nose around 28.300 MHz, 1.4:1, about 60-70 ohms on roof per MFJ-259. The shack end a bit lower SWR, maybe due to feedline losses.

Anyway, the R5 vertical is on a 10' pole on roof and it seems to beat the dipole by plenty on most of the sigs I heard yesterday. (Left work early yesterday to install new 10M dipole). Does this make sense? I had to install the dipole in approx. an E-W config, since that's what I had to work with.

Any ideas? I realize the foam is not the best for coax chokes, but it's what I had and is hands down better than anything RS sells as far as coax. Didn't want the added weight of RG-213 in temporary choke.

If you've experienced a vertical beating the pants off a dipole at relatively same height pls let me know. Don't have the time or parts to raise the dipole a bit off the roof.

Thanks

72 Kevin N2T0
Brooklyn, NYC
kfglynn@prodigy.net

Date: Fri, 12 Dec 1997 12:10:54 -0600
From: Kevin Muenzler <wb5rue@stic.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [32597] RE: Vertical Antenna Question
Message-ID: <01BD06F6.FFD65540@muenzlerk.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

On zlau@arrl.org, Zack Lau[SMTP:zlau@arrl.org] wrote:

> Mike Pender wrote:
> > This antenna is by far the most bang
> > for the
> > buck anywhere.
>
> You get a bigger signal (more bang) with a dipole
> over steeply sloping ground (you did say anywhere).
> With good ground slope, a 15M dipole can perform
> quite well over long paths just 20 ft off the ground
> (like KH6 to East Coast--N1RL said I worked K1ZZ with
> his beam at Europe...)--Zack W1VT
>
>
>

Dipoles also tend to be a little less noisy but usually on 15 or 10 meters noise isn't a problem. Verticals have the advantage of being omnidirectional (if you think such a thing is an advantage) and have a lower takeoff angle than a dipole. Each has its advantages and disadvantages depending on what you are shooting for.

Kevin, WB5RUE
wb5rue@stic.net

Date: Fri, 12 Dec 1997 13:19:30 -0500 (EST)
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
To: qrp-l@lehigh.edu
Subject: [32598] HONEY they shrunk the paddle!
Message-ID: <Pine.GS0.3.96.971212131057.26460A-100000@callisto.acsu.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well I just got the "bag-o-parts" to build the k8FF paddle...
It was a surprise to see how small it actually is.

I built a SW-40 yesterday and a LDG autotuner today

L1 on the AT11 seems to be pretty wobbly with only one turn. Maybe I should look at the manual :-)

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

Date: Fri, 12 Dec 1997 10:41:10 -0800 (PST)
From: KB0VCC/1 <kb0vcc@rocketmail.com>
To: QRP-L@Lehigh.EDU
Subject: [32599] Off the wall antenna question...
Message-ID: <19971212184110.11073.rocketmail@attach1.rocketmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi Everyone,

In the same spirit of Brad's 9v battery question (inquiring minds want to know), here's one for the antenna gurus. I know that if one has a wire dipole, they can produce some gain by stringing a horizontal reflector parallel to the dipole. Ok... so here's my question: Can MORE gain be achieved if the wire reflector, instead of being just a straight wire, is a parabola in the same plane? This works for circular polarized antennas (satelite dishes, etc) but will/can it work for horizontally polarized applications? Just wondering. If not, why? I'm yet to see this illistrated in any publication, so I suspect there's a flaw in this approach (besides the obvious constructionl challanges involved). Comments?

In other news, I installed one of those TimeWave DSP's into my dad's SP-6 for him. WOW! That baby will really pluck the weak

ones out of the crud! No fox could stand a chance against
a pack armed with these. It's like cutting down the trees before
the hunt begins. ...no where to hide foxii! They're not cheap
though, so there's only one thing to do: "Dear Santa..."

72, 73 es Season's Greetings!
-Dale

```
=====
Dale Anderson           In the Mt Washington Valley
KB0VCC                  Conway, New Hampshire
QRP-L #91 / CQC #251    Grid Sq: FN43KX
ARS #234 / FISTS #3172  http://www.qsl.net/kb0vcc
=====
```

DO YOU YAHOO!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Fri, 12 Dec 1997 13:39:36 EST
From: Scottae4vq <Scottae4vq@aol.com>
To: qrp-l@Lehigh.EDU
Subject: [32600] Knightlight rig?
Message-ID: <5bca99ec.349184ea@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Gang:

Have had trouble with e-mail the last few days, so I missed this thread.

Is it true the KL club is putting together a QRP kit?
Any details available ?

tnx and 72's... Scott AE4VQ

Date: Fri, 12 Dec 1997 18:46:58 +0000
From: "Juan Antonio Lopez, EA8QJ, EA-QRP # 196" <jalopezd@arrakis.es>
To: qrp-l@Lehigh.EDU
Subject: [32601] Mel Evans, GM6JAG

Message-ID: <3.0.32.19971212184340.007daec0@pop.arrakis.es>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Listers,

Anyone can tell me the E-mail of Mel Evans, GM6JAG?

Mni tks in advance.

72

Juan Antonio, EA8QJ, EA-QRP # 196
EA-QRP Club - Relaciones y desarrollo
mailto:jalopezd@arrakis.es
EA-QRP Club Web Site: <http://www.eaqrp-c.arrakis.es>

Date: Fri, 12 Dec 1997 11:01:27 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: <aweiss@sunflowr.usd.edu>
Cc: "QRP-L list server" <qrp-l@Lehigh.EDU>
Subject: [32602] Re: W0RSP & The FOX -- First Time
Message-ID: <199712121920.NAA03832@multi13.netcomi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

> From: Adrian Weiss <aweiss@sunflowr.usd.edu>
> ...> Then I got to thinking -- once you've worked the FOX, the fun is over,
> and
> all too quickly -- 35 seconds or so. Maybe we ought to work out a plan
> for
> sliding down the band a couple of Khz and going for routine QSO's. Who
> knows...

Ade --

I frequently "pick off" a hunter with a precisely aimed round, and we scamper up the band and have a chat. I've had quite a few very fine conversations with other hunters that way.

Give me a call sometime after I've caught the fox (!): "mg up" should do it.

Mike K1MG

PS: I have been enjoying "Joy" and "History" immensely. They've been nightly reading and rereading since I received them.

Date: Fri, 12 Dec 1997 12:24:58 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Michael Maiorana <mikemo@ibm.net>
Cc: qrp-1@lehigh.edu
Subject: [32603] Re: Need a regen schema
Message-ID: <Pine.SOL.3.91.971212115940.11152A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Michael,
I sent you the schematics on the Pip Squeek and Desert Ratt with the assembly info. Did you receive them yet? Anyway, here's a few things to check.

On Fri, 12 Dec 1997, Michael Maiorana wrote:

> I think my coil is wrong. I wound 16 turns of #22 hookup wire around a
> 35mm film holder with a tap soldered on at 4 turns. The windings are
> spaced to cover the whole thing. Should I have used enamel wire and
> wound it closely spaced? Should I leave it on the plastic can or do I
> need to remove it?

I have used everything from #22 wire to #30 solid to wind the coils. Solid wire does make a bit higher Q than stranded. Your turns ratio sounds correct, although they should be packed together tightly, not spread about. Rule of the thumb is to make the tickler winding about 1/4th to 1/3rd the RF windings, which your 4T:16T is right on. Leave the coil on the form.

16T on a film can, closely spaced, should give you a coil length of about 3/4" and an inductance of about 4.5-5uH. The 300pF variable means the low frequency should be about 4MHz and the upper around 12MHz ... which is very close to what I get on my original Desert Ratt with virtually the same variable cap. In the early evening, you should hear some of the

powerful SW broadcasters around 5.5-6.2, 9.5-10 and (uugh) 7MHz.

> Also, I can't get it to oscillate. I used a surplus air variable for the
> cap (20 - 300pf). I connected the chassis of the cap to the ground side
> and the rotor to the other. I also have 3" wires connecting the cap to
> the circuit board. Is this a problem.

Tighten up the windings on the main coil. Check that you have around
1.8-2v being developed by the 3 diodes and it's going to the coil tap
and getting to the collector of the regen transistor. The regen pot
controls the current, and hence the feedback, and near minimum setting
it should clearly oscillate.

>
> I checked my wiring once, but it was late and I was getting bleary eyed.
> I will check the circuit again tonight.
>
> Any advice for a rookie??
> Thanks
> 72 de kf4trd
> Mike Maiorana
> --

Regen's ain't no superhets! But they are fun in their own right. Once
you check your wiring and the above and get it to oscillate, advance the
regen control to the oscillation point and start tuning ... a station will
make a hetrodyne sound as you tune past it. If an AM shortwave broadcaster
you'll hear the audio with a squeel on it. Now this is a 2-handed
operation ... with one hand, fine tune the station and with the other
keep piddling with the regen control to keep it just below the point of
oscillation. As you do this, the station frequency will skew a bit, so
retune it in, and piddle with the regen again. Takes a couple of
iterations, but properly tuned, you'll hear no squeel and fairly decent
audio quality. BTW, hang out 15-20 feet of wire, even temporarily, for
an antenna. Something to gather a fair amount of RF.

Building and getting a regen working isn't quite like the excitement of the
1st QSO on a newly built QRP kit ... but close :-)

GL, Paul NA5N

Date: Fri, 12 Dec 1997 14:43:04 -0800
From: George Cortez <10eim6294cnl@internetMCI.COM>
To: jskalski@acsu.buffalo.edu

Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [32604] Re: HONEY they shrunk the paddle!
Message-ID: <3491BDF8.146F7B36@internetMCI.COM>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi All!
How Do I get one of these Beauties????
How Mutch are they?
Thanks
George KG2DB

J. Skalski wrote:

> Well I just got the "bag-o-parts" to build the k8FF paddle...
> It was a surprise to see how small it actually is.
>
> I built a SW-40 yesterday and a LDG autotuner today
>
> L1 on the AT11 seems to be pretty wobbly with only one turn. Maybe I
> should look at the manual :-)
>
>
> 73,
>
>
> Jim N2GO
> The Buffalo QRP CONNECTION
> ARCI #9013 QRP-L #381
> Life member ARRL
> jskalski@acsu.Buffalo.EDU

Date: Fri, 12 Dec 1997 20:04:43 +0000
From: Ed Loranger <we6w@qsl.net>
To: 10eim6294cn1@internetMCI.COM
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [32605] Re: HONEY they shrunk the paddle!
Message-ID: <349198DB.277B@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Visit the wonderful Norcal Page for more information on

ordering the K8FF Kit!

<http://www.fix.net/norcal.html>

-Ed, we6w

--

72/73 de we6w qrp es CW ONLY (K8FF/Norcal Paddles! TLC555 HB keyer)

HW-8,0HR-100, Pixie2, Johnson Viking II, Drake TR-3

QRP-L#1068,ARCI#9397,Norcal#2227,ARS#275,AR#112 grid CM88ok

<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Fri, 12 Dec 97 10:25:51 HST

From: mike@krypton.nmr.Hawaii.Edu (Mike W. Burger)

To: qrp-l@Lehigh.EDU

Subject: [32606] HI owl packed

Message-ID: <9712122025.AA15690@krypton.nmr.Hawaii.Edu>

Wow! each time I do something like this I am shocked at what a small part of a station a rig actually is! I have everything I need for tonight's 40 meter 3-element yagi experiment except the antenna and feedline. First you pick up the Alinco, but then you need the key, and the key wire and plug, the power supply, the special cable from the power supply to the rig, the extension chord for the power supply, some coax jumpers, something to write with, a notebook, headphones, an external speaker... Increases respect for those who do the ARS sprints. My station would have to be in the super tubby category, (two-wheel dolly required).

Anyway everything is go for tonight, 1000-1100 Zulu Saturday at 7.028 Mhz +- QRM, from grid BL01 Maybe longer if I do not end up like a previous poster, passed out face down at the operating position. It is going to be a long day. Good luck in the 10 meter contest. 40 meters will be QRP, but the 10 meter contest from KH7R will not.

Mike Burger University of Hawaii at Manoa Department of Chemistry
AH7R - QRP-L #1053 - FISTS #3225 - BL11ch - Honolulu County

Date: Fri, 12 Dec 1997 15:36:16 -0800

From: pdn@warwick.net

To: qrp-l@lehigh.edu

Subject: [32607] X

Message-ID: <3491CA70.759@warwick.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Wanted - Transformer, PRI 115vac, SEC 18-22VAC @ 10A. New or used. If you've got one, please e-mail description, physical dimensions and price to N2PD, pdn@warwick.net

Date: Fri, 12 Dec 1997 16:01:05 -0500
From: "John P. Spoonhower" <spoon@kodak.com>
To: qrp-l@Lehigh.EDU
Subject: [32608] FS: RS dsp 40
Message-ID: <3491A611.7D48@kodak.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Everyone, I have a Radio Shack DSP 40, cw/ssb filter for sale for \$25 + shipping.
Please contact me by e-mail if interested.
Thanks, John, kc2du

Date: Fri, 12 Dec 1997 16:00:43 EST
From: DENNIS MO <DENNISMO@aol.com>
To: qrp-l@Lehigh.EDU
Subject: [32609] QRP-L WebSite Problem
Message-ID: <8e50260e.3491a64b@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

I read a fellow's listing today and he was saying that his code speed was only 13 WPM so he wasn't participating in the 'hunt'. Is there a minium CW WPM..? I'm a new ham - 4 months - and I'm at 7 WPM... did I join the club prematurely?

Denny / KF6NJQ

Date: Fri, 12 Dec 1997 13:04:51 -0800

From: "Frank A. West" <ke6vhm@earthlink.net>
To: "QRP Group" <qrp-1@Lehigh.EDU>, "Glowbugs" <glowbugs@www.atl.org>
Subject: [32610] 6 Meter Transverter
Message-ID: <199712122125.NAA01797@italy.it.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Holiday Greetings to all. I am looking for a Schematic for a 6 meter transverter using 29 MHz for the IF. Any one know of anything on the Internet or have a hard copy I can get a copy of? Thanks in advance.

TTFN 73 Frank KE6VHM
Grid Square DM13
Woodcrest, CA
QRP-L #1323 / AK/QRP #269
ICQ UIN# 1778080 ASK ME!!!
CW Forever - Have Paddle will Pound
ke6vhm@earthlink.net

Date: Fri, 12 Dec 1997 14:23:04 -0700
From: Steve Galchutt <n0tu@webaccess.net>
To: "\"Low Power Amateur Radio Discussion\"" <qrp-1@lehigh.edu>
Subject: [32611] Antenna Wire? - Aluminum Worked!!!
Message-ID: <3491AB38.1323@webaccess.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Thanks again to all who responded to my antenna questions...and the encouragement to continue experimenting... so I did just that...I replaced the #20 steel wire with the #17 aluminum and all I can say is WOW!...It really works...what a difference! In the earlier post I'd mentioned I measured 800+ ohms accross the loop w/my cheap DVM...now w/aluminum wire would you believe it measures 10 ohms!!! yes...But the real test is in using it. So far it look's promising... on the big loop close in (500-1000 miles) looks like 2-3s units on rx, over the delta loop. That's more like it!! Save the steel wire for bailing hay....!!
Next is to replace the loosey feedline!

--
CUL Steve/n0tu . .
Solar powered QRP/CW
Camping in Monument, CO....email:N0TU@webaccess.net

Date: Fri, 12 Dec 1997 15:58:02 EST
From: DENNIS MO <DENNISMO@aol.com>
To: qrp-l@lehigh.edu
Subject: [32612] QRP-L WebSite Problem
Message-ID: <fce1702e.3491a57b@aol.com>
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Thanks for all the responses to my question and problems getting into the QRP Web Site. I have managed to get to the front door. But I can't get in. When I click on the icon <ENTER> nothing happens. Ive tried everyones suggestions and most of them got me this far. I've tried it from AOL, Compuserve and finally through our company's IntraNet - with the same results..!

Thanks again for your help - I'll keep trying.....

Denny / KF6NJQ

Date: Fri, 12 Dec 1997 16:41:01 EST
From: Conway Yee <cyee@bidmc.harvard.edu>
To: <jskalski@acsu.buffalo.edu>
Subject: [32613] Re: HONEY they shrunk the paddle!
Message-ID: <12121997164101.252N1T@email.bidmc.harvard.edu>

Text of message from Yee,Conway, 12 Dec 1997, 04:39 PM

Text of message from: jskalski@acsu.buffalo.edu,

written: on Fri, 12 Dec 1997 at 01:19 PM

>Well I just got the "bag-o-parts" to build the k8FF paddle...

>It was a surprise to see how small it actually is.

Still awaiting mine... :(

>L1 on the AT11 seems to be pretty wobbly with only one turn. Maybe I
>should look at the manual :-)

Figured out a solution to this one (even before the recommended SLV silicone is applied). With L1 (and all the rest but especially L1) I soldered one end of the wire to secure it and then applied solder to the other end of the wire while holding tension on the wire with pliers. With L2-L7, I further did a final touch with the soldering iron with tension applied to the wires before the wires are trimmed.

This way, the soldered wire holds the toroid firmly onto the PC board.

BTW, SLV silicone has acetic acid in it. Since acid solder is NOT a good idea, is SLV suitable? I called LDG and they use hot glue guns which get soft at 140 degrees. Is there a better substance?

tnx es 73 de Conway Yee, N2JWQ

Date: Fri, 12 Dec 1997 16:41:44 -0500 (EST)
From: Jim Eshleman <lujce@hooch.cc.Lehigh.EDU>
To: DENNISMO@aol.com
Cc: qrp-l@Lehigh.EDU
Subject: [32614] Re: QRP-L WebSite Problem
Message-ID: <97Dec12.164151-0500_est.10422-15266+22@hooch.cc.Lehigh.EDU>
Content-Type: text

Hi Denny,

Welcome aboard!

There is a separate Novice/Tech+ foxhunt, and there is no minimum speed, although you do have to be able to copy fox calling, but that's easy because you'll hear it alot. The fox will QRS for you. Please do give it a try. The foxii (foxes) post a reminder to QRP-L before their scheduled timeslot.

You can grab the N/T+ fox schedule by sending the following command, in the body of an e-mail, to listserv@Lehigh.EDU:

GET QRP-L/FOXHUNT NT_SCHEDULE

Let me know if you have any trouble.

73

Jim N3VXI

> I read a fellow's listing today and he was saying that his code speed was only
> 13 WPM so he wasn't participating in the 'hunt'. Is there a minium CW WPM..?
> I'm a new ham - 4 months - and I'm at 7 WPM... did I join the club
> prematurely?
>
> Denny / KF6NJQ
>

Date: Fri, 12 Dec 1997 15:42:17 -0600
From: wmcshan@REX.RE.ouhsc.edu (Mike McShan)
To: qrp-l@Lehigh.EDU
Subject: [32615] Re: QRP-L WebSite Problem
Message-ID: <v01540b06b0b75f44139b@[157.142.56.167]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>I'm a new ham - 4 months - and I'm at 7 WPM... did I join the club
>prematurely?

Definitely not! There is no minimum speed to join QRP-L; all that is required is a love of low power ham radio. Please notice that we have a Novice-Tech+ fox hunt in progress that is designed for guys like yourself.

Welcome aboard, Denny, and stick around. You'll find that this one of the nicest and most helpful groups in ham radio today. One word of warning, though... if you start participating in the fox hunts you may find that your code speed will dramatically increase in a short time! And then you'll be fighting for contacts with the howling hoards of hunters in the regular fox hunt (its definitely getting tougher)!

72/73 and gl,

Mike N5JKY
Edmond, OK

Date: Fri, 12 Dec 1997 15:04:11 -0700
From: flydnq7x@primenet.com (Floyd Smithberg)
To: qrp-l@Lehigh.EDU
Subject: [32616] SS Pins, ARRL 10M Contest
Message-ID: <199712122203.PAA29147@smtp01.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Got a matched set of SS pins in the mail today (CW & SSB) now have 4 ...two from 96.

Now getting ready for the ARRL 10 Meter test...QRP of course. Starts today 1700MST to Sun 1700MST...see Nov QST for rules...GL and hope 10 is open, CU ALL

73 Floyd NQ7X Phoenix ScQRPion DM33uq QRP-L 343
ARRL ARCI G-QRP NORCAL DX WRKD HF=324 SAT=101 QRP=103

Date: Fri, 12 Dec 1997 15:11:50 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: Ian White <g3sek@ifwtech.demon.co.uk>, vhf@w6yx.stanford.edu, Andre du Toit
<adutoit@alcom.co.za>, nkmurthy@usa.net,
microwave reflector <ham-uwave@ucsd.edu>
Subject: [32617] ALMOND is Available (at last)!
Message-ID: <Pine.BSI.3.96.971212150225.21422B-100000@usr09.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

A number of people have asked about my shareware programme
ALMOND, which was the very first PC-compatible programme for high-
frequency and microwave circuit design, analysis, and optimization,
which was originally published in 1981/1982 on the EE Pulic Domain
Library.

I have just finished rewriting the manual (all 41 pages), as
well as fixing a couple of non-critical bugs in the programme itself,
and am now reissuing it as version 3.1. It can be downloaded from my
web page:

<http://www.primenet.com/~ctrask>

The ALMOND.ZIP file contains the software, manual (Word 6.0), and all
of the example files used in the manual.

I intednd to further upgrade this software to include additional
coupled line elements so as to further improve the capability of designing
distributed filters and group delay equalizers.

Comments are welcome and appreciated.

/-----.
/ What's all this \
/ extinct stuff, anyhow? /
 \-----'
_ |/
oo\
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Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240

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Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Fri, 12 Dec 1997 17:06:20
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@Lehigh.EDU
Subject: [32618] Re: Vertical Antenna Question
Message-ID: <3.0.1.16.19971212170620.2cb7237e@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 12:59 AM 12/12/97 -0500, you wrote:

>
>>>I am considering putting up a gutted out 5/8 wave CB antenna (20 feet high)

>I agree, the A-99 is a very good antenna. I used to use one primarily for
>10 meters, but have "tuned" it on 15 and made a few contacts.

Howdy,

I Have an Astron A99 (BTW, most CB dealers have them, I got mine from some
mail order CB outfit down south) It worked very nicely on 10.

The question I have is since it's 5/8 wave, it has a matching coil inside.
I belive the coil is grounded on one end, the coax feed goes to a tap on
the coil, a few turns up and the end of the coil goes to the actual antenna.

So, would it be best to leave it alone an use the tuner for other bands
(will my pi network tunner be okay?) Or, should I find a way to open the
bottom of the antenna and remove the matching coil? (not easy to do)

72,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Fri, 12 Dec 97 22:35:07
From: "KA5T Larry Wise" <lewise@inetport.com>
To: "qrp" <qrp-1@Lehigh.EDU>
Subject: [32619] ?? Super Pixie by Debra KG6UI
Message-ID: <199712122237.QAA14506@admin.inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Gang:

Can anyone tell me if this rig used the 'regular' pixie circuit?
(Which 'regular' one??)

Is the writeup that occupanied the entry in the NORCAL Pacificon
building contest available anywhere on the net??

Is the exact circuit available on the net anywhere??

thanks,
Larry

Larry KA5T lewise@inetport.com Georgetown, Texas

Date: Fri, 12 Dec 1997 17:59:00 -0500
From: "JakeCart" <JakeCart@ix.netcom.com>
To: <qrp-1@Lehigh.EDU>
Subject: [32620] Got a VE2 on my Pixie -- on to DXCC!!
Message-ID: <199712122258.QAA21089@dfw-ix13.ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Worked a gentleman in Quebec today on my Pixie II / MRX-40 / Tick Keyer
combo. Man, that 200 milliwatts can do wonders. Only 99 more countries
for DXCC - Pixie II !!! :-)

73,

Jake [N4UY]

QRP-L #821, G-QRP #9557, AK/QRP #175, CQrp #46,
NJ-QRP #74, NorCal#1457, ARCI #9392, FISTS #3450

WAS QRP W/C 48/47 (need HI and MS)

WAS QRPp W/C 9/1 (200 milliwatts on a Pixie II / MRX-40 / Tick Keyer combo)

DXCC-Pixie W/C 001/001

End of QRP-L Digest 937
